

Amendments to the Claims:

Claim 1 (Currently Amended): A substantially pure nucleic acid sequence encoding a serotonin-gated anion channel, wherein said anion channel is regulated by serotonin binding and selectively permits passage of anions from one side of said channel to the other.

Claim 2 (Canceled).

Claim 3 (Original): The nucleic acid sequence of claim 1, wherein said serotonin-gated anion channel is a chloride channel.

Claim 4 (Canceled).

Claim 5 (Original): The nucleic acid sequence of claim 1, wherein said serotonin-gated anion channel is MOD-1.

Claims 6-21 (Canceled).